

This Week in SP212E:1121/3321

Always attempt to complete the readings before class. You are responsible for reading 10 pages past the current lecture. You may not understand the material completely, but you should read it prior to lecture.

Problems to submit on the date listed :

***** STUDY the chapter summary before attempting the problems *****

All multiple page assignments must be stapled in single day assignment groupings. Your name and section number must be in an upper corner of the first page.

Week of 16 Feb

Mon: pre-Quiz for Physics Olympics Try-Out
Tues: (two) Hour Exam I
Wed: Read chapter 26
Fri: Submit Cap Lab Report; complete LabQuiz 4
Chp 25: Q 4; P 17, 20, 21, 43, 44, 66 (see hint)

Week of 23 Feb

Mon: Be Dynamic II
Read chapter 27 section 1-5
Tues: Chp 26: P 25, 26, 41, 43, 45
Lab: Kirchoff's Rules
Complete prelab and bring the lab instructions.

Q: question P: problem A: statement on this assignment sheet

Hints:

25.P66 Consider power to be a function of V and R. $P_R = V^2/R$ $dP_R = \frac{P_R}{V} dV + \frac{P_R}{R} dR$. Evaluate dP_R and $\frac{dP_R}{P_R}$. Show that the latter is approximately $2 \left(\frac{dV}{V} \right) + \frac{dR}{R}$. Compare this estimate with the exact result. Compare this approach with pages 5 and 6 of the Lab Report Guide.

Series: Same charge (or current) and potential changes add
Parallel: Same potential difference and charges (currents) add

A1